OhioEPA
State of Ohio Environmental Protection Agency
P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149

Toward A Cleaner Environment

Richard F. Celeste
Governor

HAND DELIVERED

February 3, 1989

Mr. Steven Foard
Manager Environmental Services
Ruetgers-Nease Chemical Company
201 Struble Road
State College, PA 16801

Mr. William Kennedy
Deckert, Price & Rhoads
3400 Centre Square West
1500 Market Street
Philadelphia, PA 19102

Dear Sirs:

The U.S. Environmental Protection Agency (U.S. EPA), Ohio Environmental Protection Agency (OEPA) and Ruetgers-Nease Chemical Company (Nease) entered into an Administrative Order by Consent (CO) on January 27, 1988 for the conduct of a Remedial Investigation /Feasibility Study (RI/FS) at and about the Nease Chemical site in Salem, Ohio.

The U.S. EPA Fall of 1987 survey on Middle Fork Little Beaver Creek (MFLBC) indicated mirex contamination of sediment and fish. The Ohio Department of Agriculture (ODA) has examined a slaughtered cow from a local farm adjoining MFLBC and found it to contain about twice the acceptable level of mirex in its fat. The Ohio Department of Health (ODH) has tested dairy herds that have access to MFLBC and detected mirex in the milk fat. These results along with the results of previous studies conducted by OEPA on MFLBC demonstrate a need for additional sampling locations in MFLBC. For these reasons U.S. EPA and OEPA invoke the additional work provisions of Paragraph XIII of the CO.

Nease's revised FI/FS Work Plans of October 21, 1988 do not provide the necessary work to meet the objectives of the surface water investigation detailed in the CO. Paragraph XIII of the CO provides, in pertinent part, that U.S. EPA and OEPA may determine that additional work is necessary to accomplish the objectives of the RI/FS and the following is the additional work necessary to accomplish the surface water component of the FI/FS.

Enclosed are two tables and a figure, which describe the required MFLBC stations, matrices, and analytical parameters that will attempt to determine the fact, nature, extent and magnitude of surface water, sediment and fish contamination. The schedule to complete the work shall be as follows: 30 calendar days to sample, 102 calendar days to complete the analyzes, 14 calendar days to complete the laboratory QA/QC and submit to U.S. EPA/OEPA Quality Assurance Office (QAO), 35 calendar days to submit draft Technical Memo after receiving Agencies' QAO comments, 28 calendar days to submit final Technical Memo after receiving Agencies' modifications/comments, 90 calendar days to submit draft Feasibility Study after approval of Technical Memo, 30 calendar days to submit final feasibility Study after receiving Agencies' modifications/comments.

To determine any adverse impacts from the historical disposal of sludge which may contain contaminates relating to Nease's past operations, six sludge samples shall be taken at the Salem Wastewater Treatment Plant (WWTP). The samples shall be collected from the land surface until no evidence of sludge exists using a 3 foot core split spoon sampler. All cores that show evidence of sludge shall be analyzed for mirex, photomirex, kepone, DPS, and methoxychlor. The locations are: old sludge cells 4, 6 and 8 and 3 stations west of the old access road; west of the old sludge cells, and east of the existing trees. These activities and analyzes shall be concurrent with the MFLBC work.

If Nease agrees to perform the additional work specified above, Nease shall transmit its agreement to U.S. EPA and OEPA in writing within 10 business days from receipt of this letter.

If you have any questions or comments, please contact either representative.

Sincerely,

Daniel J. Bicknell
Remedial Project Manager
U.S. Environmental
Protection Agency

Susan J. MacMillan
Project Coordinator
Ohio Environmental
Protection Agency

cc: Jonathon McPhee, ORC
Jennifer Tiell, OEPA

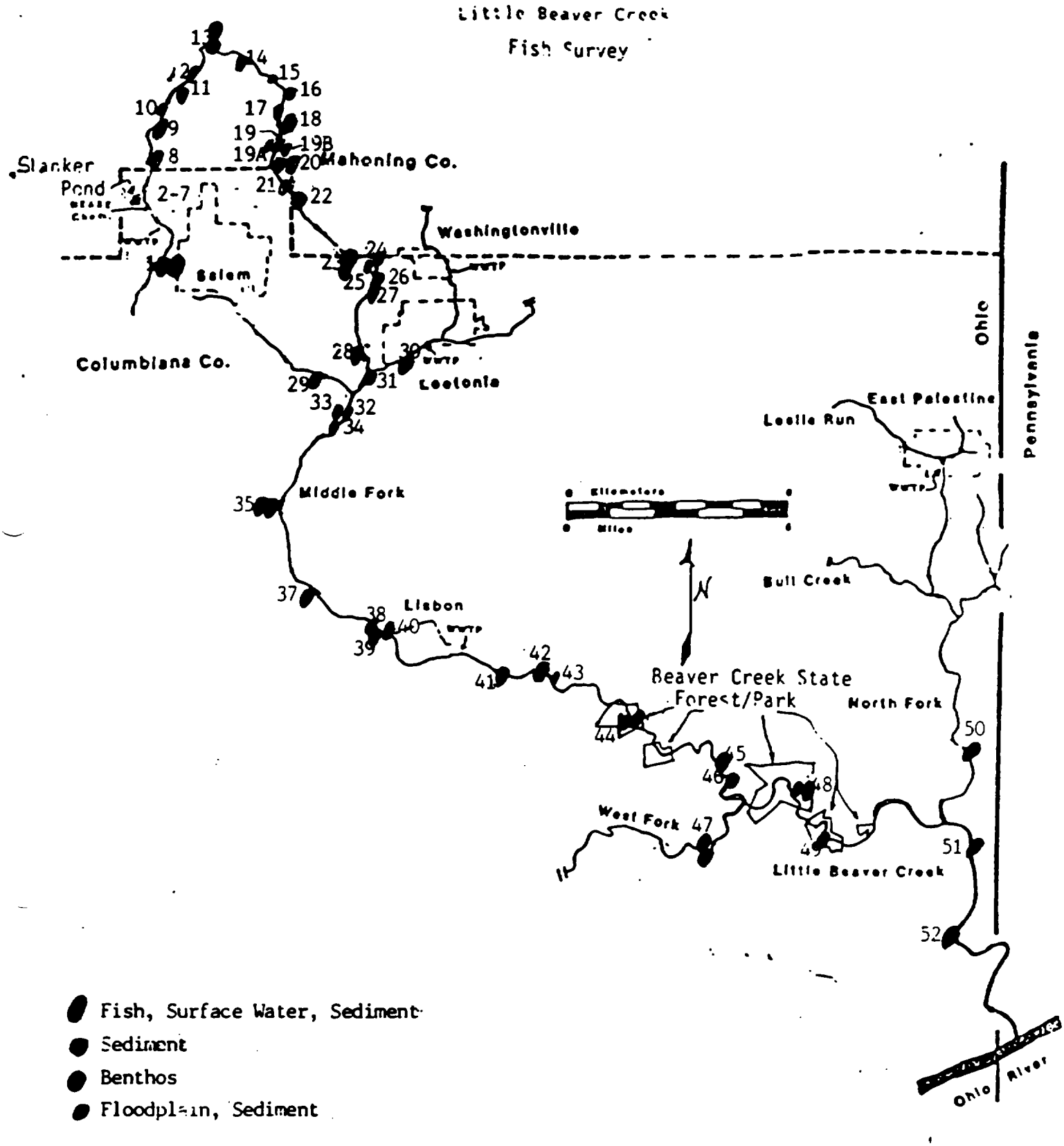

Figure 1. Sample Locations

TABLE 1
SAMPLE LOCATIONS

LOCATION	SAMPLES[1]	DESCRIPTION
1	F, SW, S, B	Upstream of the WWTP as stream crosses Rte. 45.
2-7	See draft Work Plan	See location description in draft Work Plan
8	F, SW, B	Pine Lake Road bridge
9	F, SW, B	Between Goshen Road and Rte. 165
10	FP	Miller Farm
11	S	Swamp area 0.3 RM south of Middletown Road
12	FP	Ruthraff Farm
13	F, SW, S, B	Rte. 45
14	S	Swamp area between Rte. 45 and Rte. 62
15	F, SW, S	Rte. 62
16	S	Swamp area 0.45 RM south of Rte. 62
17	FP	Sherwood Farm
18	F, SW, S	Rte. 165
19	S	Beaver dam 1.85 RM south of Rte. 165
19A	FP	Large swamp area west of beaver dam
19B	FP	Large swamp area east of beaver dam (Shepherd ditch)
20	F, SW, S, B	Pine Lake Road bridge
21	S	0.7 RM south of Pine Lake Road bridge

TABLE 1
SAMPLE LOCATIONS

LOCATION	SAMPLES	DESCRIPTION
22	F, SW, S	Due east of intersection of E.10th St. and Egypt Road
23	F, SW, S, B	Private bridge 0.45 RM south of Rte. 14 bridge
24	S	N. Lisbon Rd-Rte. 14 at river bend
25	S	Swamp area due west of station 24
26	S	Swamp area 0.53 RM south of station 24
27	FP	Camp Farm
28	F, SW, S	Railroad bridge over Lisbon-Canfield Road
29	F, SW, S	Cunningham Road bridge
30	F, SW, S	Erie-Lackawanna bridge
31	S	Southeast bank of confluence of MFLBC and Cherry Valley Creek
32	S	0.23 RM south of Rte. 344 bridge
33	S	Swamp area due west of Station 32
34	S	Swamp area 0.68 RM north of Rte. 45
35	F, SW, S, B	Covered bridge on Eagleton Road
37	F, S	Coleman Road bridge

TABLE 1
SAMPLE LOCATIONS

LOCATION	SAMPLES	DESCRIPTION
38	S	0.37 RM south of Furnance Road bridge
39	F, S	Above Lisbon dam
40	F, SW, S	Below Lisbon Spillway
41	S	0.6 RM west of station 42
42	F, SW, S	Elkton West Point Road bridge
43	FP	0.2 RM east of station 42
44	F, S, B	Beaver Creek State Park canoe livery 2 1/4 miles east of Elkton
45	F, S	Beaver Hollow Road bridge
46	S	Swamp area by Rte. 7 north of Williamsport
47	F, SW, S	Y Camp Road bridge
48	F, SW, S, B	Bell School Road bridge
49	F, S	Sprucevale Road bridge
50	F, SW, S	Fredricktown bridge
51	F, S	1 RM south of MFLBC/NFLBC confluence
52	F, SW, S	Grimms Road bridge

1. F = Fish, SW = Surface water, S = Sediment, B = Benthos, and FP = Floodplain and Sediment

TABLE 2

TYPE AND NUMBER OF STATIONS[1]

SAMPLE TYPE	NUMBER OF STATIONS	PARAMETERS
Fish, Surface water, Sediment[4]	25	CLP+40+SAS[2]
Sediment	15	M,P,K,DPS,ME[3]
Benthos	8	M,P,K,DPS,ME
Floodplain, Sediment[5]	7	M,P,K,DPS,ME

1. Station 2-7 will be analyzed as described in the Nease draft Work Plan-10/22/88, but are not included in this table.

2. CLP organics and a library search for 40 additional compounds plus mirex, photomirex, kepone and diphenyl sulfone.

3. Mirex, photomirex, kepone, diphenyl sulfone and methoxyclor.

4. Surface water samples will only be collected and analyzed past station 35 at stations 40, 42, 47, 48, 50 and 52.

5. Floodplain, sediment stations will have 1 sample collected in the creek and 3 to 4 samples collected from soils in the floodplain in a line perpendicular to the creek.